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UNITED STATES DEPARTMENT OF AGRICULTURE
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OFFICE OF AGRICULTURAL INSTRUCTION
Washington, D. C.

RURAL ENGINEERING PUBLICATIONS OF THE DEPARTMENT OF AGRICULTURE
CLASSIFIED FOR THE USE OF TEACHERS.

The following list of publications has been prepared to assist teachers in making an intelligent selection of Department publications on topics pertaining to the subject of rural engineering. Teachers should avoid requesting a large list of publications on different topics at one time, or of publications the use of which is to be distributed over a long period of school work. It must be the policy of the Department to limit the distribution of publications to actual present needs as nearly as possible, so that the funds available for purposes of publication can be made to benefit the largest possible number of real users. A few bulletins carefully studied by the teacher and the class or assigned to certain members for individual reports are of much greater service than a hundred forgotten on the shelves at home or in the school library. Copies of many of the publications listed below may be obtained free upon application to the Office of Publications, U. S. Department of Agriculture as long as the Department's supply lasts. When the Department's supply is exhausted, they may then be obtained at the prices indicated from the Superintendent of Documents, Government Printing Office, Washington, D. C., to whom both postal order and remittance should be addressed as that office officially is not connected with the Department of Agriculture. Postage stamps, mutilated coins, foreign money and uncertified checks will not be accepted. No publications are sold by the Department of Agriculture.

Title	Publication	Price
<u>Irrigation.</u>		
How to build small irrigation ditches-----	F.B. 158	.05
Sugar-beet growing under irrigation-----	F.B. 567	.05
Irrigation of grain-----	F.B. 863	.05
Practical information for beginners in irrigation-----	F.B. 864	.05
Irrigation of alfalfa-----	F.B. 865	.05
Irrigation of orchards-----	F.B. 882	.05
Surface irrigation for eastern farms-----	F.B. 899	.05
Potato culture under irrigation-----	F.B. 953	.05
Growing irrigated grain in southern Idaho-----	F.B. 1103	.05
The border method of irrigation-----	F.B. 1243	.05
Corrugation method of irrigation-----	F.B. 1348	.05
Pumping from wells for irrigation-----	F.B. 1404	.05
Irrigation in Florida-----	D.B. 462	.05
Spray irrigation-----	D.B. 495	.10
Irrigation district operation and finance-----	D.B. 1177	.10
Drainage district assessments, study of present practices in assessing benefits under State drainage laws-----	D.B. 1207	.10

Title	Publication	Price
An economic study of irrigated farming in Twin Falls, Idaho-----	D.B. 1421	.15
Pumping for irrigation on the farm-----	Y.S. 703	.05
With the irrigation farmer-----	Y.S. 839	.05

Drainage.

Drainage of irrigated farms-----	F.B. 805	.05
Organization, financing, and administration of drainage districts	F.B. 815	.05
Gullies, how to control and reclaim them-----	F.B. 1234	.05
Terracing farm lands-----	F.B. 1386	.05
Excavating machinery used in land drainage-----	D.B. 300	.20
Drainage of irrigated shale land-----	D.B. 502	.15
Prevention of erosion of farm lands by terracing-----	D.B. 512	.15
Range preservation and its relation to erosion control on western grazing lands-----	D.B. 675	.10
Flow of water in concrete pipe-----	D.B. 852	.25
Flow of water in drain tile -----	D.B. 854	.25
Economy of farm drainage-----	Y.S. 640	.05
Community tile drainage construction-----	Y.S. 822	.05

Structures.

Simple trap nest for poultry-----	F.B. 682	.05
Equipment for farm sheep raising-----	F.B. 810	.05
Construction and use of farm weirs-----	F.B. 813	.05
Pit silos-----	F.B. 825	.05
Farm reservoirs-----	F.B. 828	.05
Management of common storage houses for apples in Pacific North- west-----	F.B. 852	.05
Homemade silos-----	F.B. 855	.05
Home storage of vegetables-----	F.B. 879	.05
Fire prevention and fire fighting on the farm-----	F.B. 904	.05
Simple hog-breeding crate-----	F.B. 966	.05
Tile-trenching machinery-----	F.B. 1131	.05
One-register furnaces (pipeless furnaces)-----	F.B. 1174	.05
Operating home heating plant-----	F.B. 1194	.05
Farm dairy houses-----	F.B. 1214	.05
Chimneys and fireplaces, how to build them-----	F.B. 1230	.05
Utilization of flue-heated tobacco barns for sweet-potato storage	F.B. 1267	.05
Plain concrete for farm use-----	F.B. 1279	.05
Greenhouse construction and heating-----	F.B. 1318	.05
Dairy-barn construction-----	F.B. 1342	.05
Beef-cattle barns-----	F.B. 1350	.05
Principles of dairy-barn ventilation-----	F.B. 1393	.05
Poultry house construction-----	F.B. 1413	.05
Practical hog houses-----	F.B. 1487	.05
Protection of buildings and farm property from lightning-----	F.B. 1512	.10
Flumes and fluming-----	D.B. 87	.10
Structures used in draining agricultural land -----	D.B. 1408	.10

Title	Publication	Price
Picking maturity of apples in relation to storage-----	D.C. 1448	.05
<u>Sanitation.</u>		
Flytraps and their operation -----	F.B. 734	.05
Some common disinfectants-----	F.B. 926	.05
Farm-home conveniences-----	F.B. 927	.05
Harvesting and storing ice on the farm-----	F.B. 1078	.05
Argentine ant as a household pest -----	F.B. 1101	.05
House cleaning made easier-----	F.B. 1180	.05
Floors and floor covering-----	F.B. 1219	.05
Sewage and sewerage of farm homes-----	F.B. 1227	.05
How to get rid of rats-----	F.B. 1302	.05
Yellow-fever mosquito-----	F.B. 1354	.05
Housefly and how to supress it-----	F.B. 1408	.05
Farmstead water supply-----	F.B. 1448	.10
Preventing damage by termites or white ants-----	F.B. 1472	.05
Sewage disposal on the farm-----	Y.S. 712	.05
<u>Machinery.</u>		
Economic study of farm tractor in Corn Belt-----	F.B. 719	.05
Care and repair of farm implements: No. 3, Plows and harrows-----	F.B. 946	.05
Care and repair of farm implements: No.4, Mowers, reapers and binders-----	F.B. 947	.05
Tractor experience in Illinois, study of farm tractor under corn-belt conditions-----	F.B. 963	.05
Efficient operation of threshing machines-----	F.B. 991	.05
Use of machinery in cutting corn-----	F.B. 992	.05
Gas tractor in eastern farming-----	F.B. 1004	.05
Hay stackers, how they may be used in the East and South to save labor-----	F.B. 1009	.05
Practical hints on running a gas engine-----	F.B. 1013	.05
Machinery for cutting firewood-----	F.B. 1023	.05
Farm tractor in the Dakotas-----	F.B. 1035	.05
Laying out fields for tractor plowing-----	F.B. 1045	.05
Motor trucks on eastern farms-----	F.B. 1201	.05
Tractors on southern farms-----	F.B. 1278	.05
What tractors and horses do on corn-belt farms-----	F.B. 1295	.05
Changes effected by tractors on corn-belt farms-----	F.B. 1296	.05
Cost of using tractors on corn-belt farms-----	F.B. 1297	.05
Cost of using horses on corn-belt farms-----	F.B. 1298	.05
Shall I buy a tractor for a corn-belt farm?-----	F.B. 1299	.05
Choosing a tractor for a corn-belt farm-----	F.B. 1300	.05
Motor trucks and corn-belt forms -----	F.B. 1314	.05
Cotton-dusting machinery-----	F.B. 1319	.05
Dust explosions and fires in grain separators in Pacific Northwest-----	D.B. 379	.10
Small sawmills, their equipment, construction, and operation-----	D.B. 718	.10
Installation of dust-collecting fans on threshing machines for prevention of explosions and fires and for grain cleaning-----	D.C. 98	.05
Cotton-seed mixing increased by modern gin equipment-----	D.C. 205	.05

Title	Publication	Price
Grounding cotton gins to prevent fire-----	D.C. 271	.05
Roads & Bridges		
Macadam roads-----	F.B. 338	.05
Benefits of improved roads-----	F.B. 505	.05
Progress reports of experiments in dust prevention and road preservation, 1913-----	D.B. 105	.05
Vitrified brick pavements for country roads-----	D.B. 246	.10
Portland cement concrete pavements for country roads-----	D.B. 249	.15
Progress reports of dust prevention and road preservation, 1914-----	D.B. 257	.10
Method for examination of bituminous road materials-----	D.B. 314	.10
Methods for determination of properties of road building rock-----	D.B. 347	.10
Results of physical tests of road-building rock-----	D.B. 370	.15
Progress reports of experiments in dust prevention and road preservation-----	D.B. 407	.10
Earth, sand-clay, and gravel roads-----	D.B. 463	.15
Expansion and contraction of concrete and concrete roads-----	D.B. 532	.10
Standard forms for specifications, tests, reports, and methods of sampling for road materials-----	D.B. 555	.10
Drainage methods and foundations for county roads-----	D.B. 724	.20
Results of physical tests of road-building rocks, 1916-1921-----	D.B. 1132	.10
Standard specifications for steel highway bridges, adopted by American Association of State Highway Officials and approved by Secretary of Agriculture for use in Federal-aid road work-----	D.B. 1259	.10
Width of wagon tires for roads on earth and gravel roads-----	D.C. Off, Secty. 72	.05
Roads-----	Y.S. 849	.05
Highways and highway transportation-----	Y.S. 914	.25
Materials of Construction.		
Preservative treatment of farm timbers-----	F.B. 744	.05
The care of leather-----	F.B. 1183	.05
Home tanning of leather and small fur skins-----	F.B. 1334	.05
Windbreak as a farm asset-----	F.B. 1405	.05
Oil-mixed Portland cement concrete-----	D.B. 230	.10
Strength tests of structural timbers treated by commercial wood-preserving processes-----	D.B. 286	.05
Some exercises in farm handicraft for rural schools-----	D.B. 527	.10
Kiln drying handbook-----	D.B. 1136	.25
Tentative, standard methods of sampling and testing highway materials-----	D.B. 1216	.15
Utilization of dogwood and persimmons-----	D.B. 1436	.10
Red Alder of the Pacific Northwest-----	D.B. 1437	.10
Basic grading rules and working stresses for structural timbers-----	D.C. 295	.05
Standard grading specifications for yard lumber-----	D.C. 296	.20
Industrial outlets for short length softwood yard lumber-----	D.C. 393	.10
The substitution of other materials for wood; Studies of lumber-industry, pt. 11-----	Dept. Reports 117	.15

Title	Publication	Price
Demonstration courses in kiln drying, boxing and crating, gluing of wood, wood properties and uses -----	M.C. 8	.05
Identification of furniture wood -----	M.C. 66	.25
<u>Miscellaneous.</u>		
Experimental production of straw gas-----	D.B. 1203	.05
Land reclamation policies in United States-----	D.B. 1257	.05
Work of Yuma reclamation project experiment farm in 1919 and 1920 -----	D.C. 221	.10
Work of Newlands reclamation project experiment farm in 1920-1921-----	D.C. 267	.05
Work of Huntley reclamation project experiment farm in 1921-----	D.C. 275	.05
Putting wood waste to work-----	Y.S. 856	.05
Timber, mine or crop-----	Y.S. 886	.15
Weather and agriculture-----	Y.S. 918	.20

